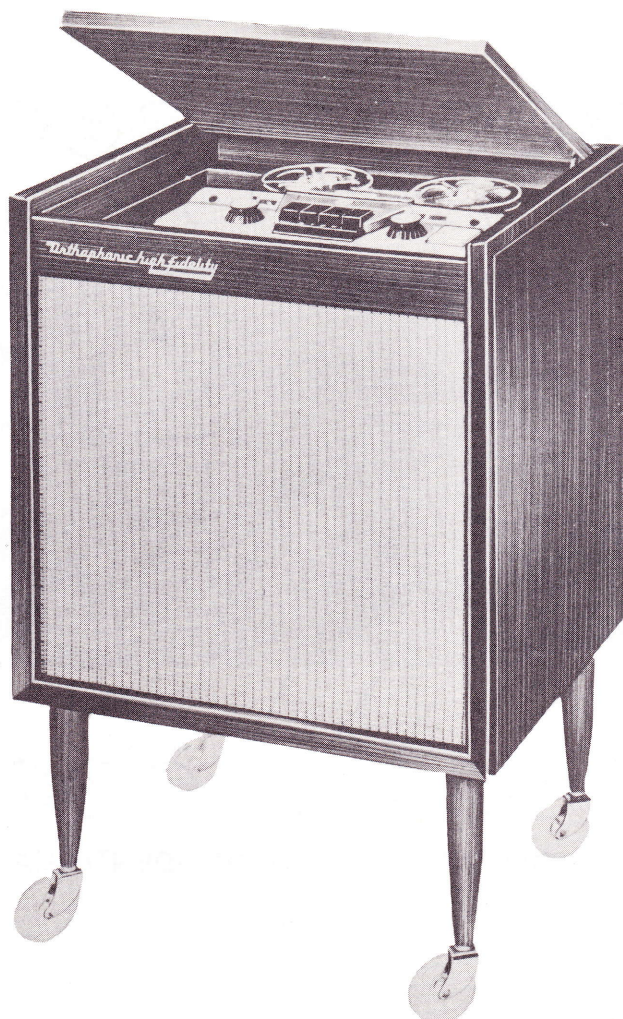


PHOTOFACT* Folder



RCA VICTOR
MODEL 7-TRC-1 (Ch. RS-156A)

RCA VICTOR
MODEL 7-TRC-1 (Ch. RS-156A)



RCA VICTOR
MODEL 7-TRC-1 (Ch. RS-156A)

TRADE NAME	RCA Victor Model 7-TRC-1 (Ch. RS-156A)		
MANUFACTURER	RCA Victor Radio & "Victrola" Div., Radio Corp. of America, Camden 8, N. J.		
TYPE SET	AC Operated Two Speed Tape Recorder		
TUBES (Six)	Types 5879 Preampifier-Bias Oscillator, 12AX7 Preamp. - AF Amp., 12AU7 Phase Inv. - Record Level Driver, (2) 6AQ5 Output, 6X4 Rectifier		
POWER SUPPLY	110-120 Volts AC-60 Cycles	RATING	.42 Amp. @ 117 Volts AC, 43 Watts (Without Motor)

FOR SERVICE INFORMATION ON THE TAPE TRANSPORT CHASSIS TR-2-1 - SEE RCA MODEL 7-TR-2 - PHOTOFACT SET 340 FOLDER 16.

HOWARD W. SAMs & CO., INC. • Indianapolis 5, Indiana

The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of H199

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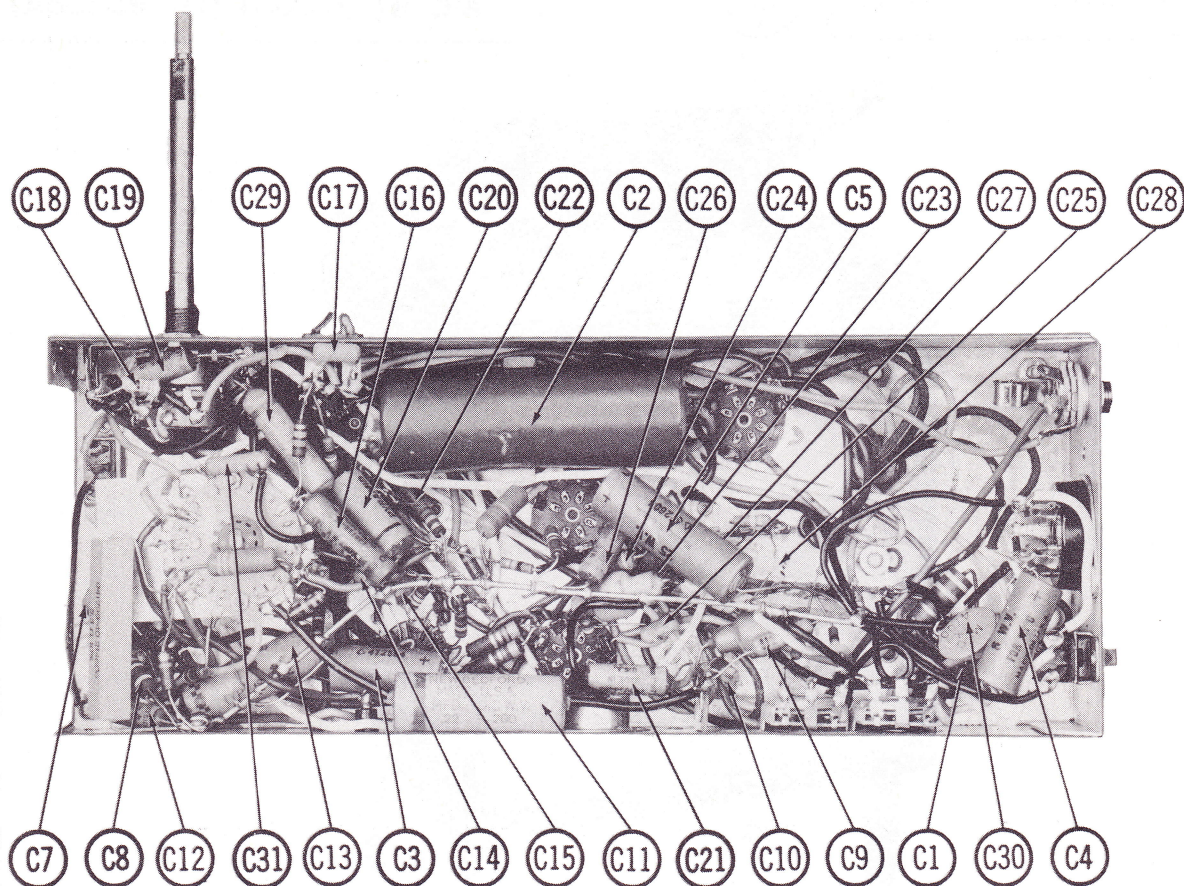
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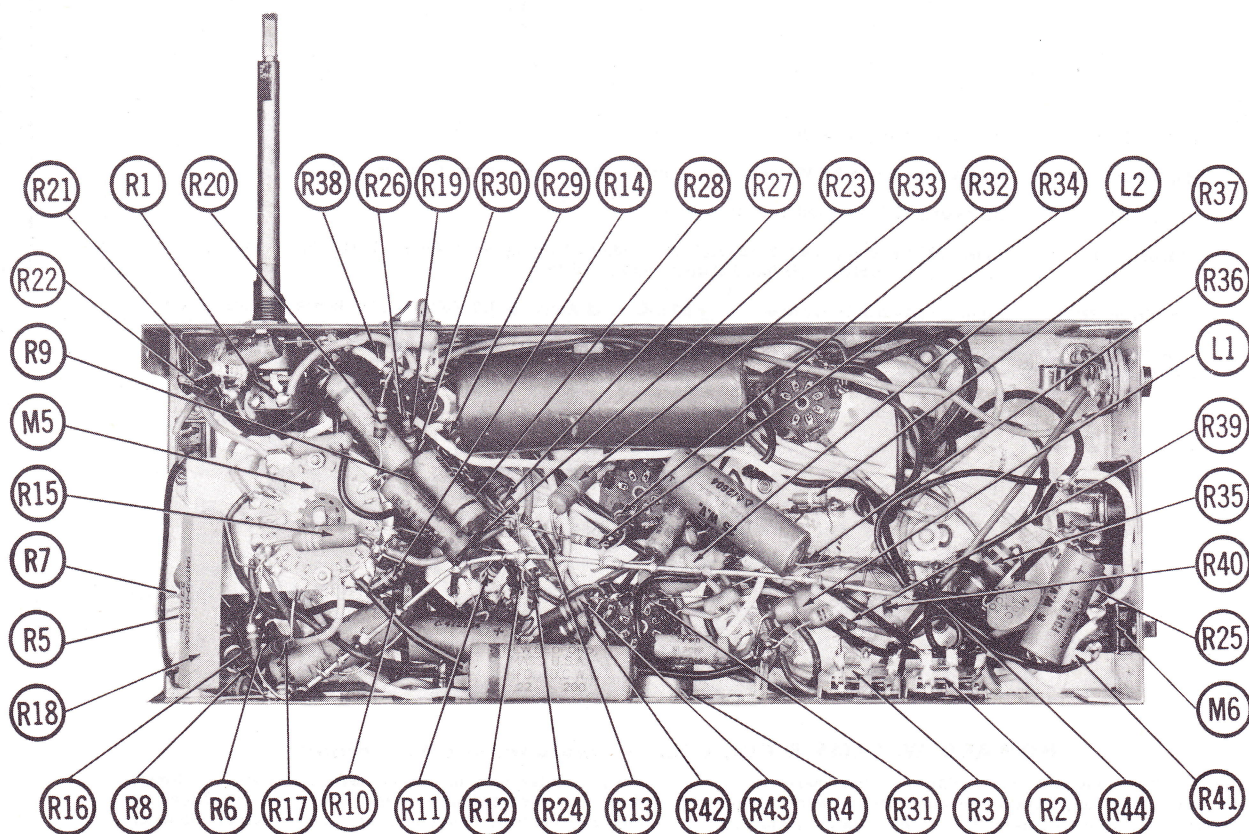
SET 376

FOLDER 17

FOLDER 17



CHASSIS-BOTTOM VIEW-CAPACITOR IDENTIFICATION



CHASSIS-BOTTOM VIEW-RESISTOR IDENTIFICATION

PARTS LIST AND DESCRIPTIONS TUBES (GENERAL ELECTRIC, SYLVANIA)

ITEM No.	USE	TYPE	NOTES
V1	Pre-amplifier-Bias Osc.	5879	
V2A	Pre Amplifier-	12AX7	
V3A	AF Amplifier-	12AU7	
V3B	Phase Inverter-Record Level Amp.		

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA					
	CAP.	VOLT.	RCA VICTOR PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.
C1A	30	400	102427	AFH3-120	FP445	TC2D78		T-550
C1B	30	400			TC2D78			MTD-4510
C1C	30	25						
C2A	30	350	101946	PR5-175	TC23764			D-065
C2B	30	250						MT-2512
C2C	20	350						
C3	50	6	78573	SRE50V6	BBR50-6	TC29	TD-50-6	MMT-650
C4	50	6	78573	SRE50V6	BBR50-6	TC29	TD-50-6	MMT-650
C5	100	25	100552	PRS25V100	BBR100-25	TC2501	TD-100-25	MTH-2510
C6	8	10VAC	100509	PRS10VAC8	BBR100-90	TC108	TD-16-150	MT-1516
					BBR16-90		TD-16-150	MT-1516

† Connect negative leads together.

* Non Catalog Item.

FIXED CAPACITORS

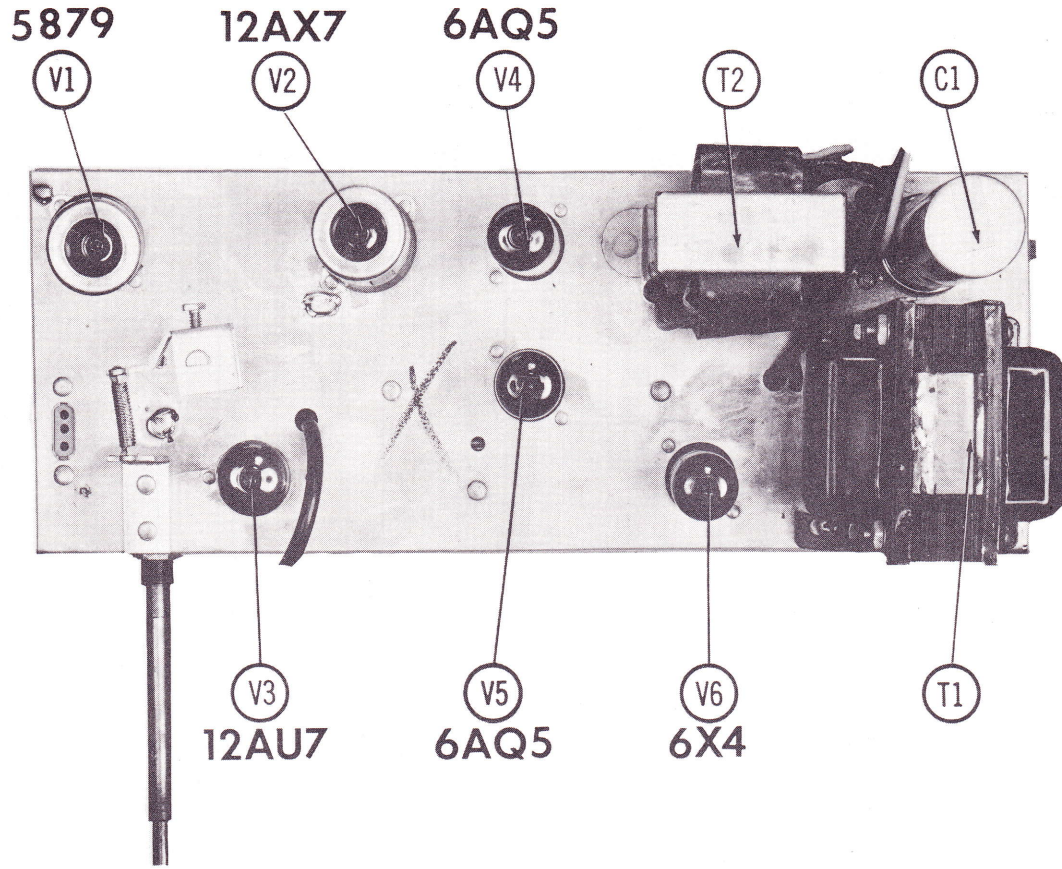
Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING		REPLACEMENT DATA						NOTES
	CAP.	VOLT.	RCA VICTOR PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIC PART No.	MALLORY PART No.	
C7	01	200	73561		D6-391	L10T39	ED-390	GEM-1611	10%
C8	390		75841				ED-1500		10%
C9	1500		75810				ED-270		10%
C10	270	200	77638		D6-271	L10T27		GEM-2022	10%
C11	.22	400	78905	P288N-22		CUB22P22			10%
C12	.0033	400	102425						10%
C13	.047	400	73553						10%
C14	330	400	76552		DC-331	L10T33	ED-330		10%
C15	.047	400	78921-A						10%
C16	.018	200	102618						10%
C17	820		102356						10%
C18	22	200	101940		D6-220	L10Q22	ED-820		10%
C19	.0015	400	102423	NP0-SI 22			ED-22	GEM-1611	10%
C20	.047	400	78921-A						10%
C21	.01	400	102220						10%
C22	.01	200	101000						10%
C23	1500		75810						10%
C24	470		75198		D6-471	L10T47	ED-1500		10%
C25	470		75198		D6-471	L10T47	ED-470		10%
C26	.001	400	102426						10%
C27	.01	400	102220		D6-221	L10T22	GP-220	GEM-1611	10%
C28	220		77460	SI 220			UC-5322	UC-5247	10%
C29	.0068		73789		DD8-502	BYC6DD47	ED-0047	UC-5247	10%
C30A	4700		76470	BPD-2X0047					
C31	1800		74850						

CONTROLS

ITEM No.	RATING		REPLACEMENT DATA				INSTALLATION NOTES
	RESIST.	ANCE	RCA VICTOR PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	IRC PART No.	
R1A	250K		101716			UE1377	Tone
R1B	1Meg						Volume, Tap @ 250K
R2	1Meg		102421				Overload (Record Level)
R3	1Meg		102421				Normal (Record Level)
R4	100K		102422				Hum Balance (Wire Wound)

CHASSIS—TOP VIEW



PARTS LIST AND DESCRIPTIONS (Continued)

RESISTORS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	RATING		REPLACEMENT DATA		NOTES	ITEM No.	RATING		REPLACEMENT DATA		NOTES	
			RCA VICTOR PART No.	IRC PART No.					RCA VICTOR PART No.	IRC PART No.		
	OHMS	WATT						OHMS	WATT			
R5	27K		502327	BTS-27K		R25	3300Ω		502233	BTS-3300		
R6	47K		502347	BTS-47K		R26	56K		502356	BTS-56K		
R7	1.5Meg		502515	BTS-1.5Meg		R27	22K		502322	BTS-22K		
R8	3300Ω		502233	BTS-3300		R28	27K		502327	BTS-27K		
R9	27K		502327	BTS-27K		R29	47K		502347	BTS-47K		
R10	1Meg		502510	BTS-1Meg		R30	2700Ω		502227	BTS-2700		
R11	390K		502439	BTS-390K		R31	220K		502422	BTS-220K		
R12	180K		502418	BTS-180K		R32	220K		502422	BTS-220K		
R13	22K		502322	BTS-22K		R33	270Ω	1	512127	BTA-270		
R14	68K		502368	BTS-68K		R34	10K		502310	BTS-10K		
R15	33K	1	512333	BTA-33K		R35	470Ω	2	522147	BTB-470		
R16	15K		502315	BTS-15K		R36	100K		502410	BTS-100K		
R17	470K		502447	BTS-470K		R37	270K		502427	BTS-270K		
R18	3.3Ω	7	102424			R38	100K		502410	BTS-100K		
R19	100K		502410	BTS-100K		R39	100K		502410	BTS-100K		
R20	68K		502368	BTS-68K		R40	100K		502410	BTS-100K		
R21	820K		502482	BTS-820K		R41	5600Ω		502256	BTS-5600		
R22	100K		502410	BTS-100K	Note 1	R42	8.2Ω 5%		101852			
R23	220K		502422	BTS-220K			R43	8.2Ω 5%		101852		
R24	2700Ω		502227	BTS-2700			R44	100K		502410	BTS-100K	

Note 1. Some versions may use 68K.

TRANSFORMER (POWER)

ITEM No.	RATING				REPLACEMENT DATA				
	PRI.	SEC. 1	SEC. 2	SEC. 3	RCA VICTOR PART No.	Halldorson PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.
T1	117VAC @ .42A	480VCT @ .067A	6.3VAC @ 2.5A		101849	P9212	P-3147	PC-8419	24R00U

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA						NOTES
	PRI.	SEC.	RCA VICTOR PART No.	Halldorson PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T2	8500Ω CT	3.2Ω	101848						

PARTS LIST AND DESCRIPTIONS (Continued)

SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
	SIZE	FIELD	V. C. IMP.	RCA VICTOR PART No.	QUAM PART No.	
SP1	8"	PM	3-4Ω	78597 ①	8A31	① Parallel and Phase
SP2	3 1/2"	PM	6-8Ω	100465 ①	3A15TZ6.6	
SP3	3 1/2"	PM	6-8Ω	100465 ①	3A15TZ6.6	

COILS

ITEM No.	USE	REPLACEMENT DATA				NOTES
		RCA VICTOR PART No.	MEISSNER PART No.	MERIT PART No.	MILLER PART No.	
L1	Blas Osc.	101722				8 Millihenries
L2	Trap Coil	101722				8 Millihenries

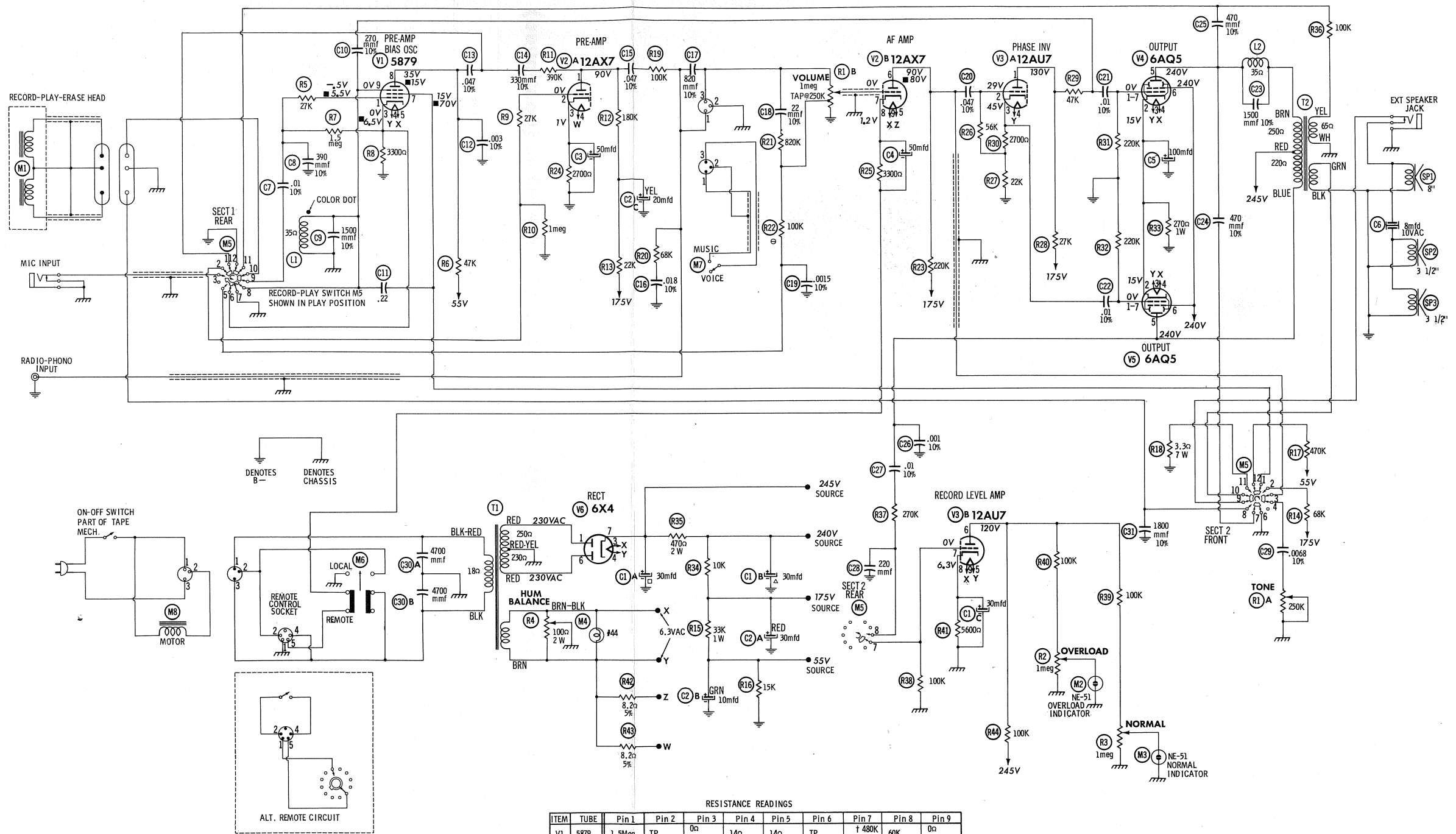
MISCELLANEOUS

ITEM No.	PART NAME	RCA VICTOR PART No.	NOTES
M1	Head	101494	Record-Play-Erase
M2	Neon Lamp	101857	Indicator Neon Type #51
M3	Neon Lamp	101857	Indicator Neon Type #51
M4	Pilot Light	11891	#44
M5	Switch	101850	Record-Play (Rotary Wafer Type)
M6	Switch	101856	Remote-Local (Slide Type DPDT)
M7	Switch	101870	Voice-Music (Slide Type SPST)
M8	Motor	101461	

CABINETS & CABINET PARTS

(When Ordering Cabinets & Cabinet Parts, Specify Model, Chassis & Color)

NAME	PART NO.	DESCRIPTION
Knob	101704	On-Off-Speed
Knob	101706	Tone
Knob	101705	Volume



SEE PARTS LIST FOR ALTERNATE
VALUE OR APPLICATION

RESISTANCE READINGS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	5879	1.5Meg	TP	0Ω ■ 3300Ω	14Ω	14Ω	TP	† 480K ■ † 78K	60K	0Ω ■ 35Ω
V2	12AX7	† 210K	1Meg	2700Ω	14Ω	14Ω	† 230K † 60K	0Ω	3300Ω	14Ω
V3	12AU7	† 37K	78K	25K	14Ω	14Ω	† 25K	100K	5600Ω	14Ω
V4	6AQ5	220K	270Ω	14Ω	14Ω	† 285Ω	† 470Ω	220K		
V5	6AQ5	220K	270Ω	14Ω	14Ω	† 220Ω	† 470Ω	220K		
V6	6X4	250Ω	NC	14Ω	14Ω	NC	230Ω	20K(min)		

ALL MEASUREMENTS TAKEN IN "PLAY" POSITION UNLESS OTHERWISE DESIGNATED

† MEASURED FROM PIN 7 OF V6

■ MEASURED IN "RECORD" POSITION

NC NO CONNECTION

TP TIE POINT

1. DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured at 1000 ohms per volt.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common negative.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance of component values makes possible a variation of ±15% in voltage and resistance readings.
6. All controls at minimum, proper output load connected.